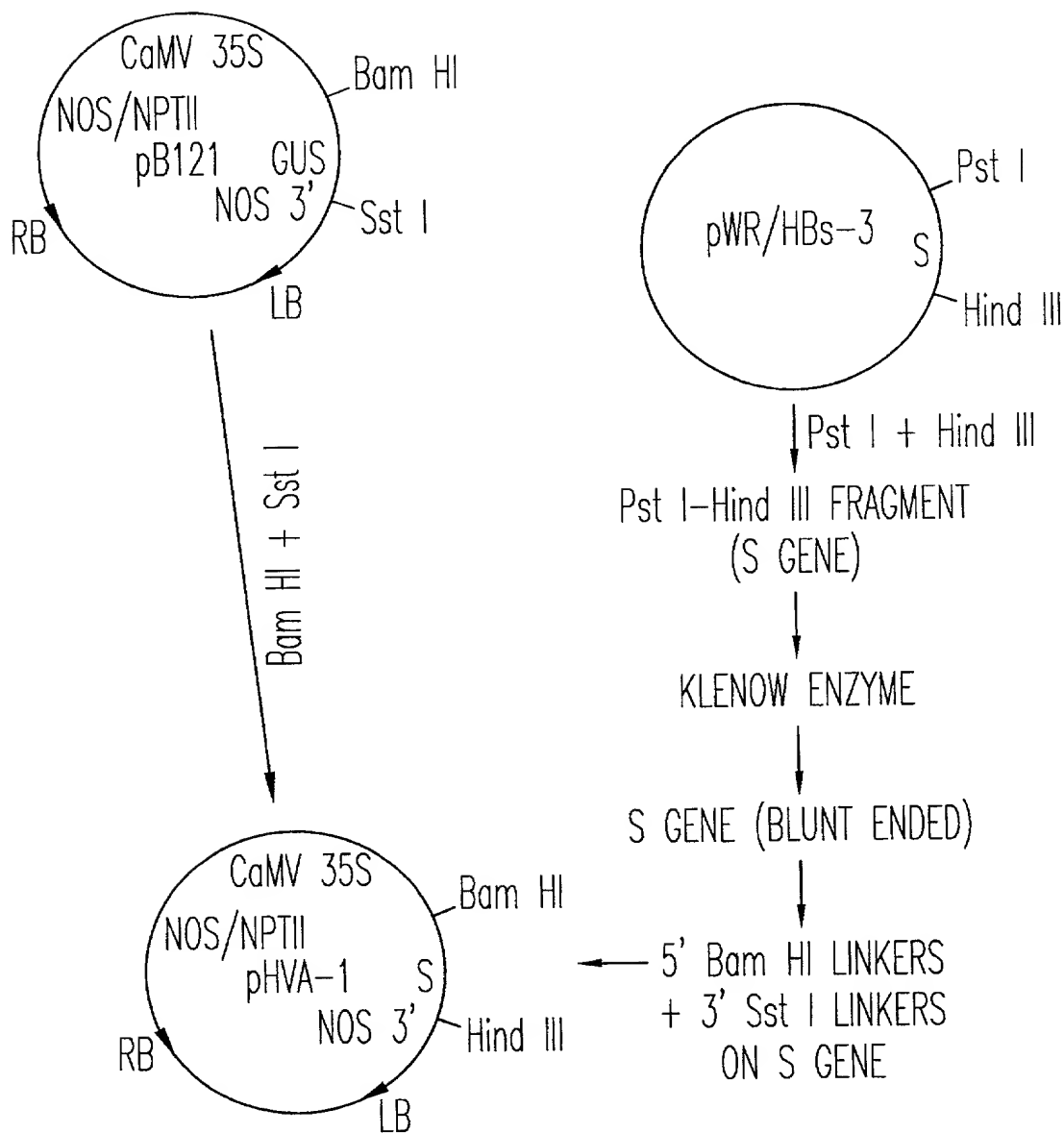RB = T-DNA RIGHT BORDER
LB = T-DNA LEFT BORDER
GUS = β –GLUCURONIDASE GENE
S = HEPATITIS B VIRUS SURFACE ANTIGEN

Fig.1

LB

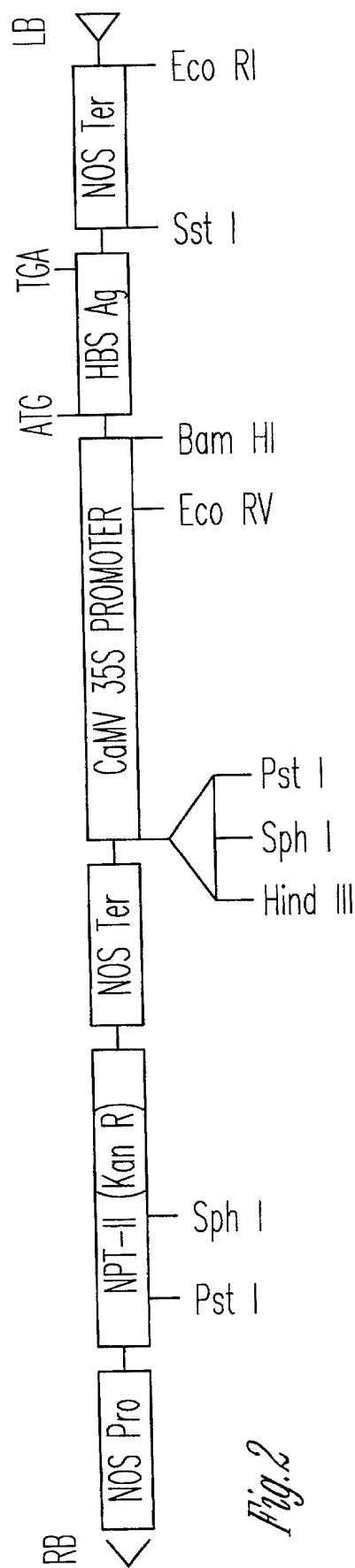Eco RI

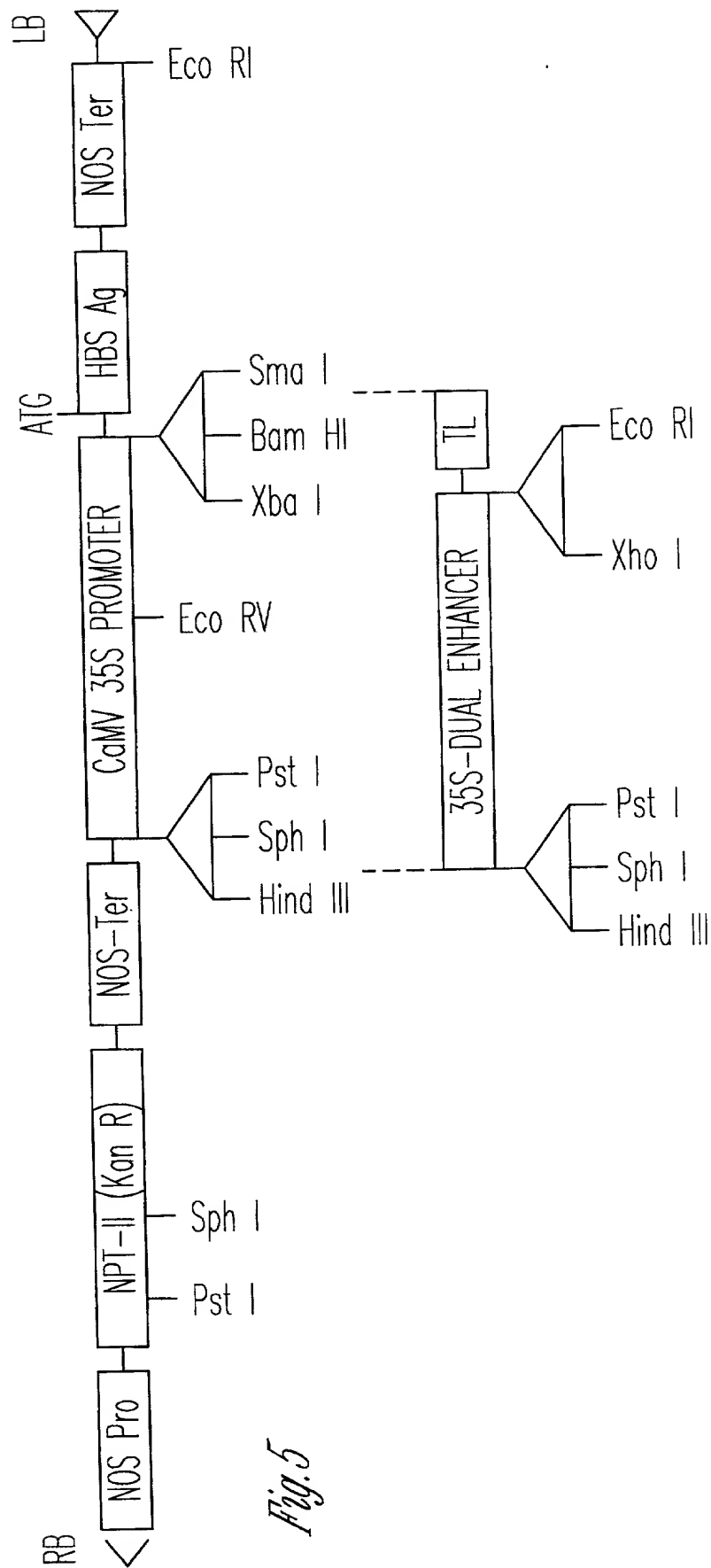NOS Ter

Sst I

TGA

HBS Ag

ATG

Bam HI

Eco RV

CaMV 35S PROMOTER

Pst I
Sph I
Hind III

NOS Ter

NPT-II (Kan R)

Sph I

Pst I

NOS Pro

RB

Fig.2

LB

Eco RI

NOS Ter

HBS Ag

ATG

Sma I
Bam HI
Xba I

TL

Eco RI
Xho I

CaMV 35S PROMOTER

Eco RV

35S-DUAL ENHANCER

Pst I
Sph I
Hind III

Pst I
Sph I
Hind III

NOS-Ter

NPT-II (Kan R)

Sph I

Pst I

NOS Pro

RB

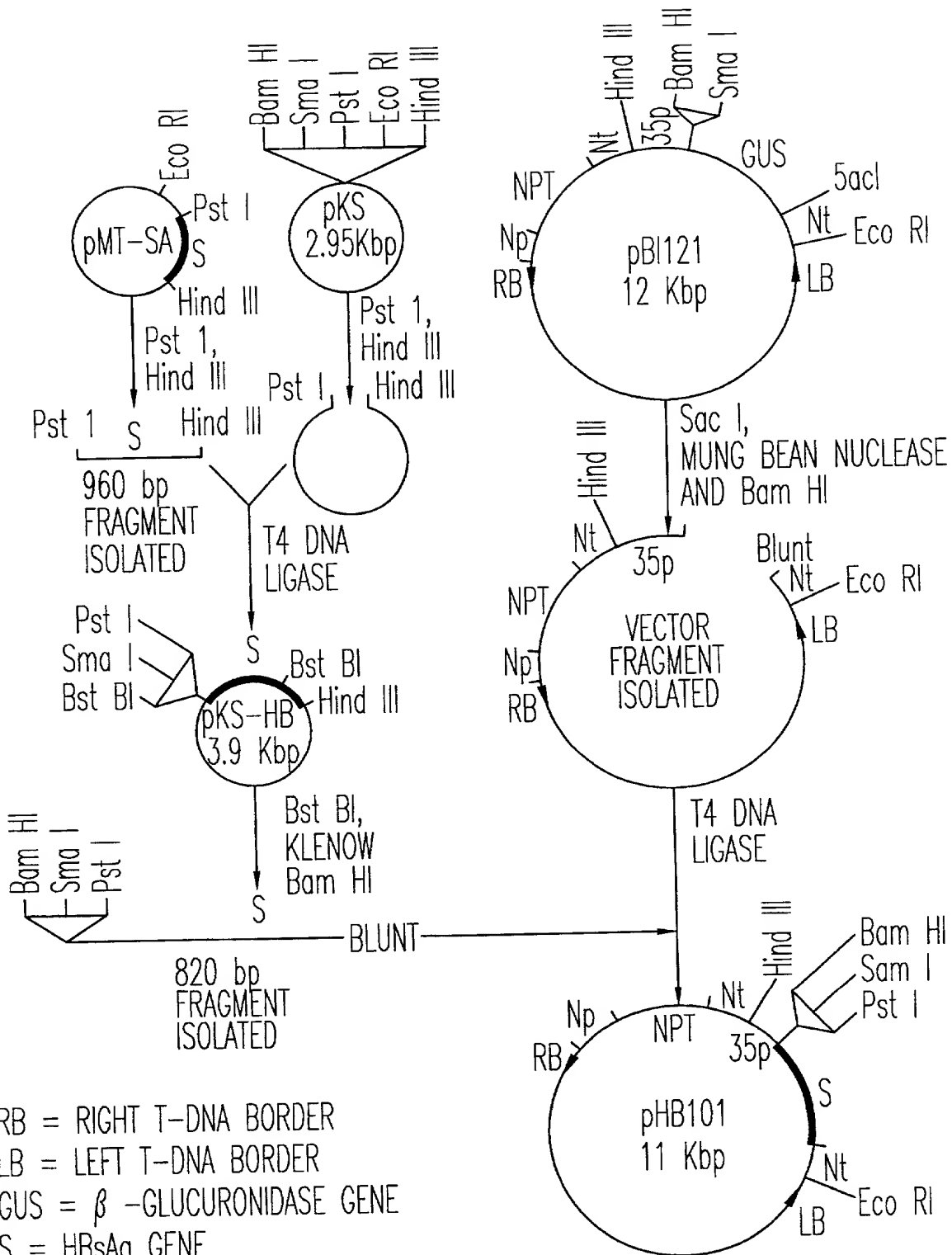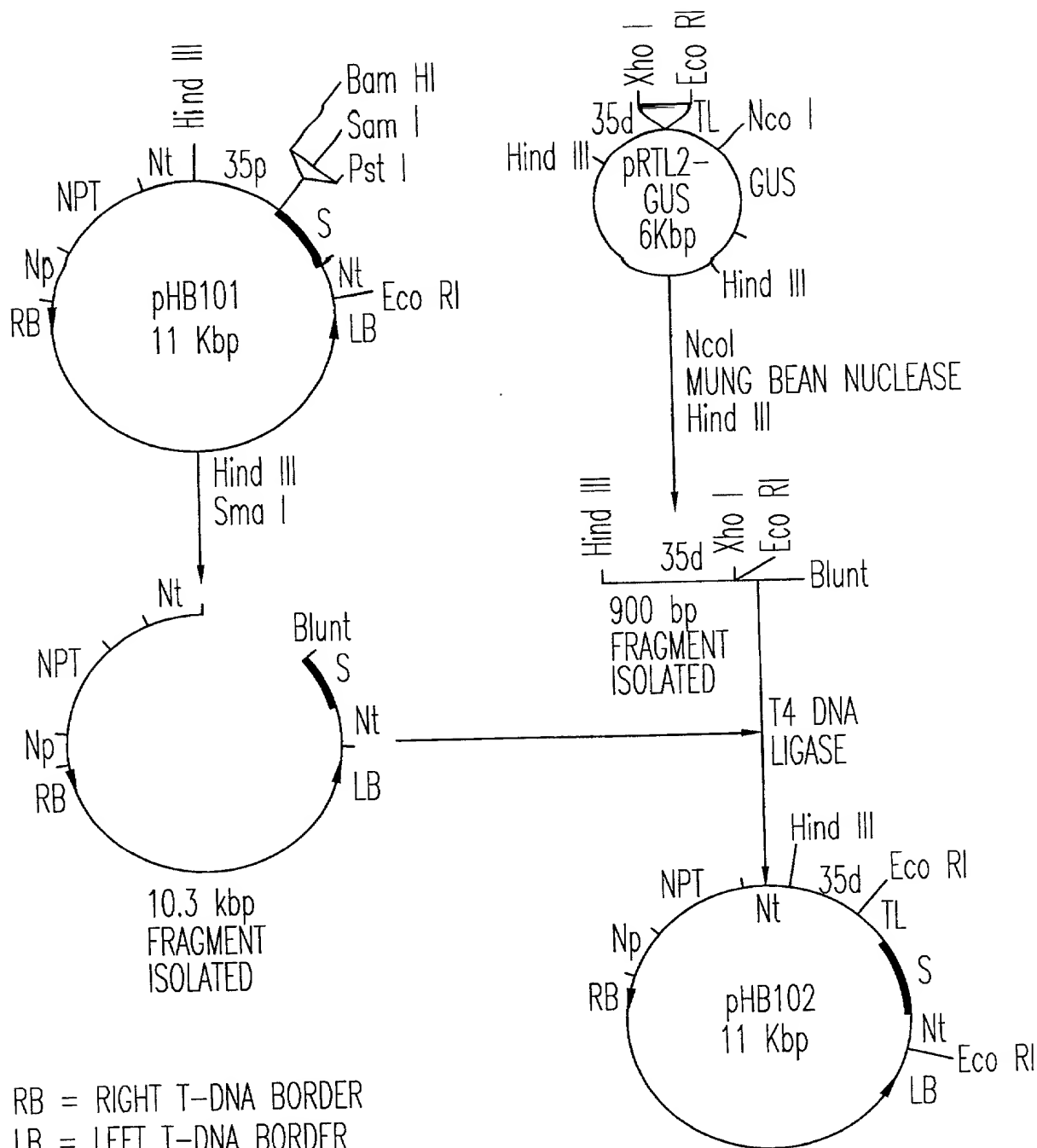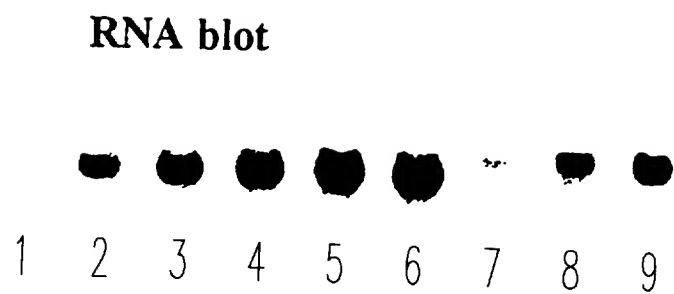*Fig.5*

RB = RIGHT T-DNA BORDER
LB = LEFT T-DNA BORDER
GUS = β –GLUCURONIDASE GENE
S = HBsAg GENE
Nt = NOPALINE SYNTHASE TERMINATOR
Np = NOPALINE SYNTHASE PROMOTER
NPT = NEOMYCIN PHOSPHOTRANSFERASE II GENE
35p = CUALIFLOWER MOSAIC VIRUS 35S PROMOTER
35d = 35S PROMOTER WITH DUPLICATED ENHANCER

Fig. 3

RB = RIGHT T–DNA BORDER
LB = LEFT T–DNA BORDER
GUS = β –GLUCURONIDASE GENE
S = HBsAg GENE
Nt = NOPALINE SYNTHASE TERMINATOR
Np = NOPALINE SYNTHASE PROMOTER
NPT = NEOMYCIN PHOSPHOTRANSFERASE II GENE
35p = CUALIFLOWER MOSAIC VIRUS 35S PROMOTER
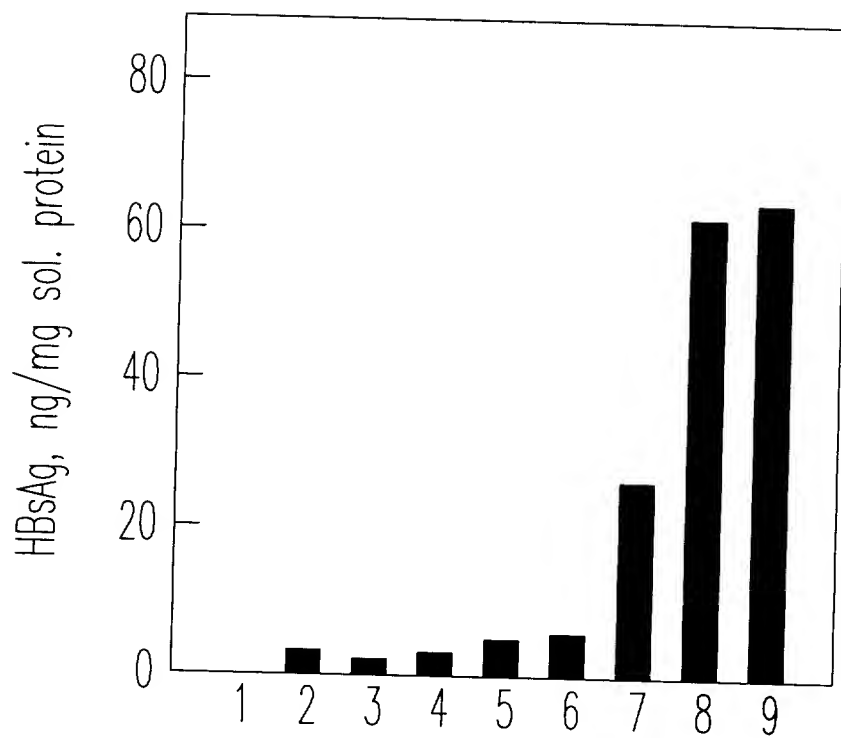35d = 35S PROMOTER WITH DUPLICATED ENHANCER
TL = TOBACCO ETCH VIRUS 5' NONTRANSLATED LEADER

Fig.4

RNA blot

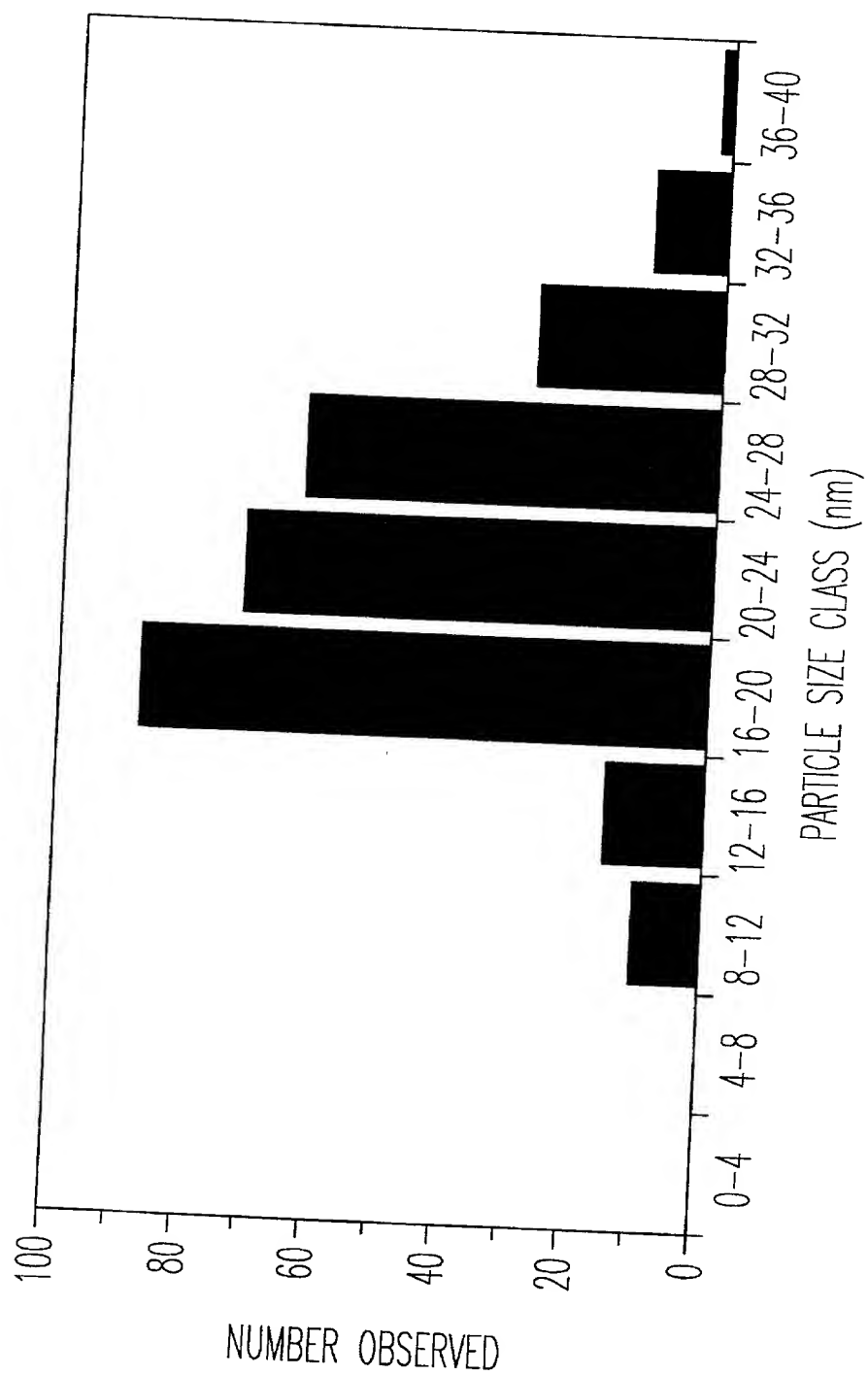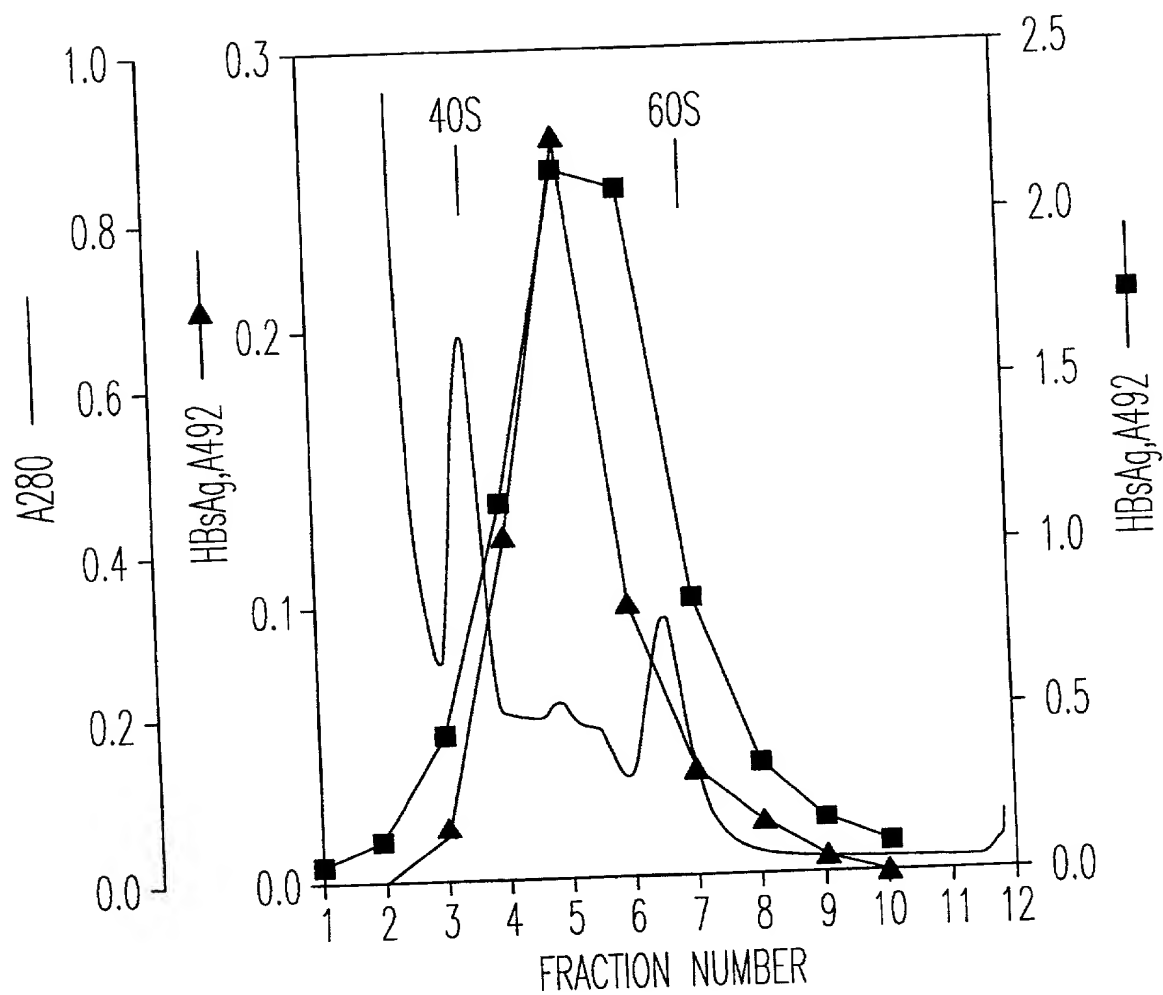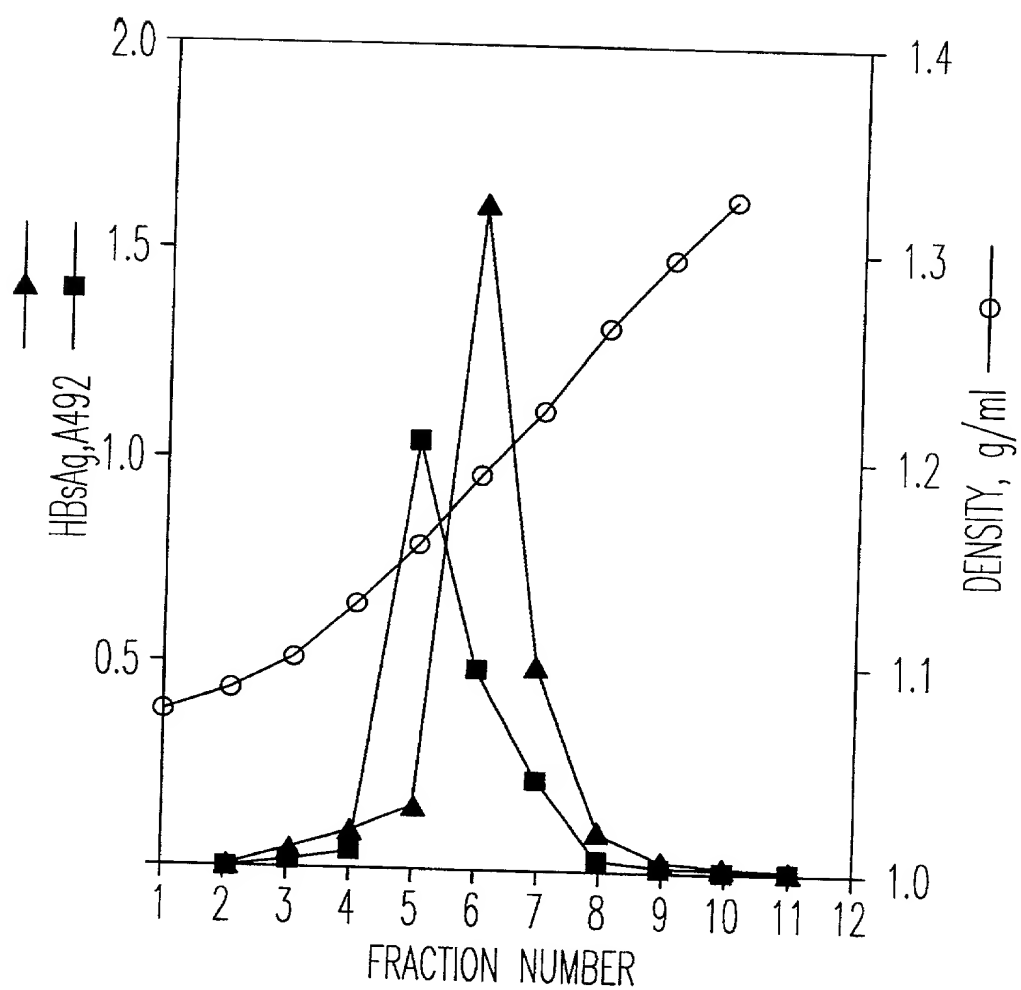1 2 3 4 5 6 7 8 9

Fig.6A

Fig.6B

Fig. 7A

Fig. 7B

NUMBER OBSERVED

100 — 80 — 60 — 40 — 20 — 0

PARTICLE SIZE CLASS (nm)

0-4 4-8 8-12 12-16 16-20 20-24 24-28 28-32 32-36 36-40

Fig.8

Fig.9

A

1 2 3

Fig. 10A

B

1 2 3

⟵ 25S

⟵ 18S

Fig. 10B

Fig.11